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(21)Application number : 2001-207235 (71)Applicant : KANSAI PAINT CO LTD
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(54) METAL SURFACE TREATING COMPOSITION

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a surface treating composition of a pollution-free type having the rust preventive power equivalent to that of chromate treatment and phosphate treatment.

SOLUTION: The metal surface treating composition contains (B) 1 to 100 pts.wt. silica particles, (C) 1 to 100 pts.wt. aziridinyl group- or oxazoline group- containing compound, (D) 0.5 to 30 pts.wt. vanadic acid compound and (E) 0.5 to 30 pts.wt. zirconium compound per (A) 100 pts.wt. carboxyl group- containing urethane resin of a resin acid value 5 to 50, or the metal surface treating composition contains (C) 1 to 100 pts.wt. aziridinyl group- or oxazoline group- containing compound, (D) 0.5 to 30 pts.wt. vanadic acid compound and (E) 0.5 to 30 pts.wt. zirconium compound with respect to an organic composite silicate (F) prepared by reacting 100 pts.wt. carboxyl group- containing urethane resin of the resin acid value 5 to 50 (A) and 1 to 100 pts.wt. silica particles (B), and the surface treated steel sheet is coated with the metal surface treating composition.

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